

Jay Upstream Data July 2001 N=8 5 SPMDs per sample <DL=0 (ng/kg)

Average Temperature

DOC 7/17

N/A

Congener	<u>SPMD 49^</u>	<u>SPMD 50^</u>	<u>SPMD 51*</u>	<u>SPMD 52</u>	<u>SPMD 53^</u>	<u>SPMD 54^</u>	<u>SPMD 55^</u>	<u>SPMD 56^</u>
2,3,7,8-TCDF	2.319	2.374	2.849	2.522	2.238	2.124	2.228	2.187
1,2,3,7,8-PeCDF	0.606	1.000	0.941	0.683	0.709	0.610	0.675	0.683
2,3,4,7,8-PeCDF	0.772	1.120	1.027	0.847	0.739	0.732	0.860	0.724
1,2,3,4,7,8-HxCDF	0.399	0.838	0.548	0.459	0.376	0.384	0.455	0.398
1,2,3,6,7,8-HxCDF	0.145	0.469	0.182	0.144	0.156	0.101	0.130	0.146
2,3,4,6,7,8-HxCDF	0.126	0.373	0.225	0.146	0.125	0.094	0.097	0.088
1,2,3,7,8,9-HxCDF	0.057	0.390	0.128	0.043	0.071	0.048	0.045	0.043
1,2,3,4,6,7,8-HpCDF	0.273	0.819	0.363	0.262	0.230	0.184	0.399	0.240
1,2,3,4,7,8,9-HpCDF	0.080	0.422	0.175	0.107	0.134	0.058	0.103	0.066
OCDF	0.206	0.887	0.358	0.256	0.271	0.186	0.255	0.207
2,3,7,8-TCDD	0.115	0.238	0.158	0.141	0.095	0.127	0.131	0.190
1,2,3,7,8-PeCDD	0.098	0.447	0.186	0.079	0.135	0.069	0.113	0.074
1,2,3,4,7,8-HxCDD	0.076	0.368	0.103	0.061	0.109	0.076	0.105	0.071
1,2,3,6,7,8-HxCDD	0.626	1.058	0.321	0.655	0.655	0.472	0.853	0.547
1,2,3,7,8,9,-HxCDD	0.137	0.562	0.310	0.191	0.270	0.172	0.200	0.165
1,2,3,4,6,7,8-HpCDD	0.603	0.921	0.687	0.582	0.553	0.555	0.658	0.522
OCDD	1.444	2.205	1.754	1.528	1.253	1.305	1.446	1.275
TEQ	1.028	1.960	1.384	1.110	1.044	0.947	1.130	1.033

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Average Temperature

DOC 9/22

N/A

Congener	<u>SPMD 41</u>	<u>SPMD 42</u>	<u>SPMD 43</u>	<u>SPMD 44</u>	<u>SPMD 45</u>	<u>SPMD 46</u>	<u>SPMD 47</u>	<u>SPMD 48</u>
2,3,7,8-TCDF	0.759	0.711	0.781	0.770	0.640	0.656	0.612	0.613
1,2,3,7,8-PeCDF	0.547	0.350	0.312	0.324	0.265	0.264	0.258	0.201
2,3,4,7,8-PeCDF	0.519	0.304	0.293	0.359	0.297	0.262	0.262	0.266
1,2,3,4,7,8-HxCDF	0.450	0.287	0.241	0.263	0.263	0.231	0.221	0.223
1,2,3,6,7,8-HxCDF	0.276	0.170	0.152	0.125	0.119	0.160	0.100	0.082
2,3,4,6,7,8-HxCDF	0.253	0.104	0.144	0.134	0.088	0.118	0.061	0.055
1,2,3,7,8,9-HxCDF	0.255	0.091	0.104	0.117	0.088	0.101	0.074	0.052
1,2,3,4,6,7,8-HpCDF	0.301	0.293	0.317	0.255	0.229	0.241	0.188	0.165
1,2,3,4,7,8,9-HpCDF	0.232	0.157	0.103	0.114	0.060	0.128	0.060	0.068
OCDF	0.405	0.371	0.344	0.333	0.287	0.368	0.304	0.228
2,3,7,8-TCDD	0.213	0.174	0.116	0.093	0.083	0.086	0.086	0.102
1,2,3,7,8-PeCDD	0.351	0.158	0.142	0.115	0.101	0.148	0.100	0.097
1,2,3,4,7,8-HxCDD	0.193	0.096	0.100	0.097	0.101	0.087	0.074	0.082
1,2,3,6,7,8-HxCDD	0.890	0.499	0.482	0.731	0.535	0.723	0.483	0.541
1,2,3,7,8,9,-HxCDD	0.354	0.198	0.154	0.157	0.152	0.156	0.131	0.099
1,2,3,4,6,7,8-HpCDD	0.453	0.461	0.504	0.415	0.386	0.368	0.343	0.303
OCDD	1.786	1.503	1.602	1.471	1.175	1.137	1.211	0.975
TEQ	1.205	0.726	0.646	0.651	0.552	0.609	0.512	0.522

**FLAGS**

M/z ion ratio  
Surrogate recovery  
Both M/z ratio and Surrogate Recovery  
Retention Time

\* Loss from GPC Clean Up Run

^ Deployed for 37 days

# All TCDD concentrations should be viewed with trepidation due to existing furan interference

<u>Jay Upstream Data July 2016</u>	<u>TOC 7/17</u>	<u>Sp. Cond.</u>	<u>Flow 7/13</u>	<u>Flow 8/10</u>	<u>DOC 8/10</u>	<u>TOC 8/10</u>	<u>Sp. Cond.</u>
	N/A	45.03	0.8	1.4	5.9275	6.3892	95.22
<u>Without SPMD 50 &amp; 51</u>							
Congener	Mean	Std. Dev.	%RSD		Mean	Std. Dev.	%RSD
2,3,7,8-TCDF	2.355	0.234	9.954		2.270	0.139	6.133
1,2,3,7,8-PeCDF	0.739	0.148	20.099		0.661	0.043	6.451
2,3,4,7,8-PeCDF	0.853	0.148	17.319		0.779	0.060	7.727
1,2,3,4,7,8-HxCDF	0.482	0.155	32.085		0.412	0.036	8.782
1,2,3,6,7,8-HxCDF	0.184	0.117	63.780		0.137	0.020	14.349
2,3,4,6,7,8-HxCDF	0.159	0.097	60.859		0.113	0.023	20.349
1,2,3,7,8,9-HxCDF	0.103	0.119	115.608		0.051	0.011	21.543
1,2,3,4,6,7,8-HpCDF	0.346	0.204	58.801		0.265	0.073	27.513
1,2,3,4,7,8,9-HpCDF	0.143	0.119	83.098		0.091	0.028	31.167
OCDF	0.328	0.232	70.627		0.230	0.035	15.063
2,3,7,8-TCDD	0.149	0.046	30.638		0.133	0.032	24.111
1,2,3,7,8-PeCDD	0.150	0.126	83.997		0.095	0.026	27.239
1,2,3,4,7,8-HxCDD	0.121	0.101	83.577		0.083	0.019	23.283
1,2,3,6,7,8-HxCDD	0.648	0.226	34.925		0.635	0.129	20.262
1,2,3,7,8,9,-HxCDD	0.251	0.138	54.936		0.189	0.045	23.895
1,2,3,4,6,7,8-HpCDD	0.635	0.128	20.158		0.579	0.048	8.249
OCDD	1.526	0.319	20.912		1.375	0.113	8.185
TEQ	1.205	0.332	27.539		1.049	0.065	6.233
<u>Jay Downstream Data July 2016</u>	<u>TOC 9/22</u>	<u>Sp. Cond.</u>	<u>Flow 9/27</u>	<u>Flow 10/20</u>	<u>DOC 10/20</u>	<u>TOC 10/20</u>	<u>Sp. Cond.</u>
	N/A	76.94	0.75	0.67	7.7361	7.8293	134.6
<u>Without SPMD 41</u>							
Congener	Mean	Std. Dev.	%RSD		Mean	Std. Dev.	%RSD
2,3,7,8-TCDF	0.693	0.071	10.289		0.683	0.071	10.439
1,2,3,7,8-PeCDF	0.315	0.105	33.179		0.282	0.050	17.755
2,3,4,7,8-PeCDF	0.320	0.087	27.015		0.292	0.034	11.779
1,2,3,4,7,8-HxCDF	0.273	0.075	27.558		0.247	0.025	9.913
1,2,3,6,7,8-HxCDF	0.148	0.060	40.369		0.130	0.032	25.005
2,3,4,6,7,8-HxCDF	0.119	0.062	52.298		0.100	0.034	34.149
1,2,3,7,8,9-HxCDF	0.110	0.062	55.956		0.090	0.021	23.910
1,2,3,4,6,7,8-HpCDF	0.249	0.054	21.712		0.241	0.054	22.250
1,2,3,4,7,8,9-HpCDF	0.115	0.058	50.768		0.099	0.037	37.993
OCDF	0.330	0.056	16.946		0.319	0.051	15.906
2,3,7,8-TCDD	0.119	0.048	40.459		0.106	0.032	30.446
1,2,3,7,8-PeCDD	0.152	0.084	55.561		0.123	0.026	20.774
1,2,3,4,7,8-HxCDD	0.104	0.037	35.749		0.091	0.010	11.058
1,2,3,6,7,8-HxCDD	0.611	0.151	24.810		0.571	0.109	19.147
1,2,3,7,8,9,-HxCDD	0.175	0.077	44.214		0.150	0.030	19.886
1,2,3,4,6,7,8-HpCDD	0.404	0.067	16.522		0.397	0.069	17.340
OCDD	1.358	0.274	20.218		1.296	0.230	17.739
TEQ	0.678	0.225	33.178		0.603	0.078	12.996

#### FLAGS

M/	
Su	
Bol	
Re	

\* Loss from GPC Clean Up

^ Deployed for 37 days

# All TCDD concentrations